## WHAT IS CLAIMED IS:

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1. A virtual reality presentation method comprising:

capturing motion of a user;

capturing\audio of the user;

transforming the audio of the user into a different

5 entity; and

animating a character with the motion and

7 transformed audio in real\time.

- 2. The method of claum 1 further comprising displaying the animated character on an output device.
- 3. The method of claim 1 in which capturing motion comprises:

attaching multiple motion tracking sensors to areas

of the user to track the user's movements; and

transmitting signals representing the movements from

the sensors to a computer system.

- 1 4. The method of claim 1 in which capturing audio
- 2 comprises attaching a microphone to the user.
- 1 5. The method of claim 4 in which the microphone is a
- wireless microphone.

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1 .	6.	The method of claim 1 in which transforming the								
2	audio comp	prises:								
3	alte:	ring pitch characteristics of the audio of the user.								
1	7.	The method of claim 1\in which animating comprises:								
2		applying the motion to $\frac{1}{2}$ three dimensional (3-D)								
3	model; and									
4		combining the transformed audio to the 3-D model.								
1	8.	The method of claim 1 in which transforming the								
2	audio comp	prises:								
3		transforming the audio into the different entity								
4	that	is of the opposite gender.								
1	9.	A presentation method comprising:								
2		generating a three-dimensional $(3-D)$ model of a								
3	character	;								
4		capturing motion of a user in real-time;								
5		capturing audio of the user in real-time;								
6		modifying a gender of the audio of the user; and								
7		animating the 3-D model with the motion and modified								
8	audio of t	the user in real-time.								
1	10.	The method of claim 9 further comprising displaying								

the animated 3-D model on an output device.

device.

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The method  $\phi$ f claim 9 in which capturing motion 11. 1 comprises: 2 attaching multiple motion tracking sensors to areas 3 of the user to track the  $\psi$ ser's movements; and 4 transmitting magnetic fields representing the 5 movements from the sensors \to a computer system. 6 The method of claim 9 in which capturing audio 12. comprises attaching a microphone to the user. 13. The method of claim 12 in which the microphone is a wireless microphone. The method of claim 9 in which modifying comprises altering pitch characteristics of the audio of the user. 2 A presentation system comprising: 15. a motion tracking device connected to a user; 2 an audio receiving device connected to the user; 3 an audio receiver/converter to transform the audio 4 into audio of a different gender to that of the user; and 5 a system to produce an animated three-dimensional 6 7 character from the motion and converted \audio. The system of claim 15 further \comprising an output 16. 1

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1	17.	The	system	of	claim	15	in	which	the	motion	tracking
2	device cor	mpris	ses: \								

- a set of interconnected sensors affixed to the user;
- 4 and
- a transmitting device for receiving signals from the sensors and sending them to a computer system.
  - 18. The system of claim 15 in which the audio receiving device is a microphone.
  - 19. The system of claim 18 in which the microphone is a wireless microphone.
  - 20. The system of claim 15 in which the audio receiver/converter comprises an audio effects digital signal processor.
    - 21. A computer program product for producing a virtual reality presentation, the product residing on a computer readable medium having instructions stored thereon which, when executed by the processor, cause the processor to:
- 5 capture motion of a user;
- 6 capture audio of the user;
- 7 transform the audio of the user into audio of an opposite
- 8 gender to that of the user; and

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animate a character with the motion and transformed audio
in real-time to render a virtual reality presentation on an
output device.
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22. A computer program product for producing a virtual reality presentation, the product residing on a computer readable medium having instructions stored thereon which, when executed by the processor, cause the processor to:

generate a three-dimensional (3-D) model of a character;

6 capture motion of a user in real-time;

7 capture audio of the user in real-time;

modify a gender of the audio opposite to that of the

9 user; and

animate the 3-D model with the motion and modified audio of the user in real-time to render a virtual reality presentation on.

- 23. A presentation method comprising:
- 2 detecting motion of a user;
- 3 detecting audio of the user;
- 4 altering the audio of the user;
- synchronizing the motion of the  $\backslash$ user to an animated
- 6 character; and
- 7 synchronizing the altered audio of the user to the
- 8 animated character.

- 1 24. The method of claim 23 in which detecting motion
- comprises:
- receiving signals representing motions from sensors
- attached to the user; and
- 5 processing the signals in a computer system.
- 1 25. The method of claim 23 in which detecting audio 2 comprises:

receiving audio signals from a microphone attached to the user.

- 1 26. The method of claim 23 in which altering the audio comprises:
- modifying a fundamental figure k equency of the audio.
- 1 27. The method of claim  $2\frac{1}{3}$  further comprising:
- displaying the animated character on an output device.
- 1 28. The method of claim 27 in which the output device is
- a projector.
- 1 29. The method of claim 27 in which the output device is
- 2 a flat panel plasma monitor.
- 1 30. The method of claim 27 in which the output device is
- 2 a multi-scan presentation monitor.

- 1 31. The method of claim 27 in which the output device is an electronic white board.
- 1 32. The method of claim 27 in which the output device is a projection screen.